Listing of the Claims

1. (Original)   A method of automatically displaying medical measurement data in which a computer receives the medical measurement data, automatically converts in real time the received measurement data into data for histograms and outputs the converted data as picture signals.

2. (Currently Amended)   A method as claimed in claim 1, ~~characterized in that~~ wherein the measurement data are converted into dynamically updated real-time histogram readout objects.

3. (Currently Amended)   A method as claimed in claim 1 ~~or 2~~, ~~characterized in that~~wherein the histogram is filled with measurement data from a time window advancing in real time ~~("moving window")~~ with selectable fixed length.

4. (Currently Amended)   A method as claimed in claim 2, ~~characterized in that~~wherein, during the conversion, the computer generates aids for the retrospective analysis of histograms in the form of selectable functions that can be displayed on a viewing screen and outputs them together with the converted data combined as picture signals.

5. (Currently Amended)   A method as claimed in ~~any one of~~ claims 1 ~~to 3~~, ~~characterized in that~~wherein, during the conversion, the computer generates a cumulative curve indication of the medical measurement data and outputs it together with the converted data combined as picture signals.

6. (Currently Amended)   A method as claimed in ~~any one of the preceding~~ claims 1, ~~characterized in that~~wherein the computer processes control signals that are produced by input means communicating with the computer and that serve to control the conversion and/or the output of the picture signals.

7. (Original)   A device for automatically displaying medical measurement data, comprising a computer that is designed for receiving medical measurement data, automatic real-time conversion of the received measurement data into data for histograms and for outputting the converted data as picture signals.

8. (Currently Amended)   A device as claimed in claim 6, ~~characterized in that~~wherein the computer is designed to convert the measurement data to dynamically updated real-time histogram readout objects.

9. (Currently Amended)   A device as claimed in claim 6, ~~characterized in that~~wherein the computer is designed to generate, during the conversion, aids for the retrospective analysis of histograms in the form of selectable functions that can be displayed on a viewing screen and to output them together with the converted data combined as picture signals.

10. (Currently Amended)   A device as claimed in ~~any one of~~ claims 5 ~~to 8~~, ~~characterized in that~~wherein the computer is designed to generate, during the conversion, a cumulative curve readout of the medical measurement data and to output it together with the converted data combined as picture signals.

11. (Currently Amended)   A device as claimed in ~~any one of~~ claims 5 ~~to 9~~, ~~characterized in that~~wherein the computer is designed to process control signals that are generated by an input means communicating with the computer and that serve to control the conversion and/or the output of the picture signals.

12. (Currently Amended)   A medical monitoring device, ~~characterized by~~comprising a device as claimed in claims 5 ~~to 10~~.

13. (New) A medical monitoring device comprising:
        computer means for receiving medical measurement data;

computer means for automatically converting the medical measurement data into histogram data as the computer means is receiving the medical measurement data;

display means for visually displaying the histogram data as the medical measurement data is received.

14. (New) The medical monitoring device as claimed in claim 13, further comprising computer means for generating a cumulative curve readout of the medical measurement data.

15. (New) The medical monitoring device as claimed in claim 14, wherein the cumulative curve is displayed concurrently with the histogram data.

16. (New) The medical monitoring device as claimed in claim 13 further comprising an alarm that is triggered when a selectable number measurements of histogram data are measured below a selectable threshold level.

17. (New) The medical monitoring device as claimed in claim 13, wherein the histogram data is binned into selectably sized histogram bins.

18. (New) The medical monitoring device as claimed in claim 13 further comprising display means for displaying real-time signal patterns of the medical measurement data.

19. (New) The medical monitoring device as claimed in claim 18, wherein the real-time signal patterns and the histogram data are displayed next to one another.